

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2035151755
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	CROSS TIMBERS ENERGY, LLC	OGRID	298299
Contact Name	SAMANNTHA AVARELLO	Contact Telephone	817-334-7747
Contact email	SAVARELLO@MSPARTNERS.COM	Incident # (assigned by OCD)	
Contact mailing address	400 W 7TH STREET FORT WORTH, TX 76102		

Location of Release Source

Latitude 32.847516 Longitude -103.532247
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	STATE N BATTERY	Site Type	OIL PIPELINE
Date Release Discovered	12/07/2020	API# (if applicable)	

Unit Letter	Section	Township	Range	County
K	11	17-S	34-E	LEA

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	12	Volume Recovered (bbls)	0
<input type="checkbox"/> Produced Water	Volume Released (bbls)		Volume Recovered (bbls)	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	

Cause of Release

OLD PIPELINE

Incident ID	NAPP2035151755
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Samanntha Avarello</u>	Title: <u>Regulatory Technician</u>
Signature: _____	Date: <u>12/07/2020</u>
email: <u>savarello@mspartners.com</u>	Telephone: <u>817-334-7747</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>5/14/2021</u>

Incident ID	NAPP2035151755
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>130</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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Printed Name: Samanntha Avarello Title: Regulatory Technician

Signature: Samanntha Avarello Date: 02/10/2021

email: savarello@mspartners.com Telephone: 817-334-7747

OCD Only

Received by: Ramona Marcus Date: 5/14/2021

Incident ID	NAPP2035151755
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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Samanntha Avarello Title: Regulatory Technician
Signature: Samanntha Avarello Date: 02/10/2021
email: savarello@mspartners.com Telephone: 817-334-7747

OCD Only

Received by: Ramona Marcus Date: 5/14/2021

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Chad Henry Date: 06/28/2021

Incident ID	
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Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

CROSS TIMBERS ENERGY, LLC

Remediation Work Plan

State N Battery
Napp2035151755
K-11-17S-34E

Cross Timbers Energy, LLC discovered the spill on December 07, 2020. The leak resulted from corrosion on a 3" steel pipeline. The 3" steel line was clamped. A vacuum truck was called to location for cleanup. The initial C-141 report was submitted to your office on December 17, 2020, see attached. Attachment 1.

Cross Timbers personnel conducted initial site assessment no groundwater, surface water or any other significant watercourse was affected. Ground water depth is reported to be 130 feet by the State Engineering Office. The most current information available is attached. Attachment 2.

The entire contaminated surface area is approximately 27' x 48'. The vertical depth of the hydrocarbon contamination is approximately 2'-3' with the exception of the soil adjacent to the leaking pipeline. Area of approximately 27' x 48' has been excavated ranging from 2'-3' before reaching clean soil to allow for vertical delineation. The hydrocarbon saturated soil, approximately 71 yards was removed from location using a backhoe and trucked to Gandy Marley disposal site.

Soil Samples notification was emailed to Mike Batcher on January 25, 2021. Cross Timbers Energy, LLC collected six sample points. Attachment 3. Additional samples were collected April 27, 2021. Each sample was tested for Chlorides, TPH, and BTEX. Attachment 4. Based on the analysis, and rocky soil characteristics in this area we are recommending mechanical removal of contaminated soil.

The specific action plan will take place in situ, for the entire contaminated area. The plan will consist of breaking up the rock and separating the soil. This will be done mechanically with a rock screen. This allows for the disposal of contaminated soil. It is Cross Timbers intention to have the soil at acceptable limits within 90 days of receiving this plan.



CROSS TIMBERS ENERGY, LLC

The site will be monitored and retested as necessary. Your office will be notified at a minimum of 2 business days prior to closure sampling. In addition, Cross Timbers will substantially restore the impacted surface area to the condition that existed prior to the release. This will be done by seeding the area with native grasses/vegetation.

Please feel free to contact me with any questions you have on the proposed remediation plan request.

Regards,

Samanntha Avarello

Samanntha Avarello

Regulatory Technician

MorningStar Partners LLC/Cross Timbers Energy LLC/Southland Royalty Co LLC

400 W 7th St, Fort Worth, TX 76102

817-334-7747



Samanntha Avarello

From: OCDOnline@state.nm.us
Sent: Thursday, December 17, 2020 1:19 PM
To: Samanntha Avarello
Subject: EXTERNAL:The Oil Conservation Division (OCD) has accepted the application PO: QGY4Y-201215-C-141A.

To whom it may concern (c/o Samanntha Avarello for CROSS TIMBERS ENERGY, LLC),

The OCD has accepted the submitted *Notification of a release* (C-141A), for incident ID (n#) nAPP2035151755, with the following conditions:

- **None**

Please reference nAPP2035151755, on all subsequent C-141 submissions regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, please contact me.

Thank you,
Ramona Marcus
Compliance Officer Advanced
505-470-3044
Ramona.Marcus@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

ATTACHMENT 1

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Mobil Exploration & Producing, U.S., Inc. North Vacuum ABO # 304
Street or Post Office Address P.O. Box 1475 Owner's Well No. _____
City and State Lovington, New Mexico 88260

Well was drilled under Permit No. L-3846-X and is located in the:

300' FSL - 2100' FWL

a. 1/4 1/4 SW 1/4 SW 1/4 of Section 11 Township 17S Range 34E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Abbott Bros. Drilling License No. WD-46

Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 6/17/91 Completed 6/25/91 Type tools Cable Size of hole 18 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 201 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 130 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
124	196	72	Sand	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
14	37	Welded	0	202	202	None	102	202

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received June 27, 1991

Quad _____ FWL _____ FSL _____

File No. L-3846-X Use SRO Location No. 17.34.11.3441341

ATTACHMENT 2 PG. 1

Section 7. REMARKS AND ADDITIONAL INFORMATION

Released to Imaging: 6/28/2021 2:17:27 PM

Samanntha Avarello

From: Samanntha Avarello
Sent: Monday, January 25, 2021 2:12 PM
To: Bratcher, Mike, EMNRD
Subject: Soil Sample- Notification

Hello Mike,

Cross Timbers Energy, LLC would like to collect soil samples on the two locations listed below on January 27, 2021. May we proceed with scheduling the soil samples for the mentioned date?

State N Bty – NAPP2035151755
NVA 165 – C-141A submitted today. 30-025-23753

*Thank you,
Samanntha Avarello*

Regulatory Technician
MorningStar Partners LLC/Cross Timbers Energy LLC/Southland Royalty Co LLC
400 W 7th St, Fort Worth, TX 76102
817-334-7747



Vertical Delineation February 01,2021 - 6" depth						
DTGW 130'	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
BTEX	37.3	<0.300	118	5.58	58	75.5
Benzene	<.0500	<0.050	3.44	0.245	<1.00	<0.500
Chloride	<16.0	<16.0	80	16	96	64
GRO	643	<50.0	1,490	306	1,190	687
DRO	41,000	7,800	53,700	44,500	37,800	20,800
EXT DRO	8,490	1,870	10,800	9,470	8,450	3,970
LAT	32°50'50.99"N	32°50'51.12"N	32°50'50.99"N	32°50'51.15"N	32°50'51.07"N	32°50'51.16"N
LONG	103°31'56.62"W	103°31'56.68"W	103°31'56.44"W	103°31'56.48"N	103°31'56.23"W	103°31'56.27"W




Vertical Delineation April 27,2021 - 6" depth						
DTGW 130'	Sample A	Sample B	Sample C	Sample D	Sample E	Sample F
BTEX	16.6	<0.300	2.18	1.92	20	20.6
Benzene	0.214	<0.050	<0.050	0.077	<0.050	<0.050
Chloride	16	80	96	32	176	112
GRO	111	<50.0	<50.0	139	321	294
DRO	13,500	6,630	21,500	17,200	22,500	14,600
EXT DRO	3,180	1,510	5,300	4,440	4,800	3,290
LAT	32°50'50.97"N	32°50'50.99"N	32°50'51.08"N	32°50'51.13"N	32°50'51.17"N	32°50'51.19"N
LONG	103°31'56.59"W	103°31'56.41"W	103°31'56.20"W	103°31'56.70"W	103°31'56.51"W	103°31'56.29"W

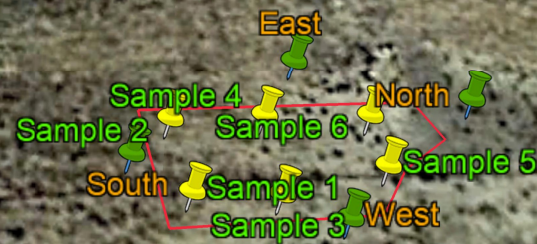
Horizontal Delineation April 27, 2021 & May 4,201 - 6" depth				
DTGW 130'	Sample North	Sample South	Sample East	Sample West
BTEX	<0.300	<0.300	<0.300	0.549
Benzene	<0.050	<0.050	<0.050	<0.050
Chloride	<16.0	<16.0	16	<16.0
GRO	<50.0	<10.0	<10.0	<50.0
DRO	2,680	36.8	44.2	2,140
EXT DRO	646	12.1	<10.0	363
LAT	32°50'51.21"N	32°50'51.05"N	32°50'51.26"N	32°50'50.96"N
LONG	103°31'56.06"W	103°31'56.75"W	103°31'56.43"W	103°31'56.30"W

STATE N BATTERY

Cross Timbers Energy, LLC
nAPP2035151755
K-11-17S-34E
32.847516,-103.532247
02/01/2021

Legend




-  Horizontal Samples
-  Spill Area
-  Verticle Samples

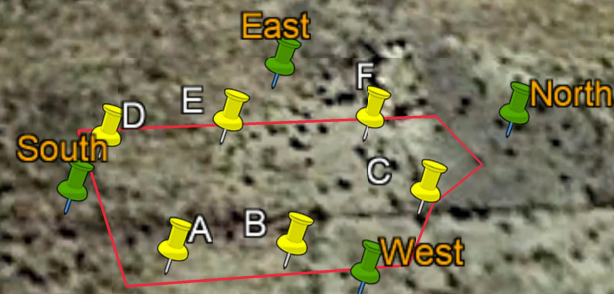


STATE N BATTERY

Cross Timbers Energy, LLC
nAPP2035151755
K-11-17S-34E
32.847516,-103.532247
04/27/2021

Legend

-  Horizontal Samples
-  Spill Area
-  Vertical Samples





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 03, 2021

JAKE BAEZA

CROSS TIMBERS ENERGY, LLC

P. O. BOX 909

EUNICE, NM 88231

RE: STATE N BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/01/21 11:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/03/2021	Sampling Type:	Soil
Project Name:	STATE N BATTERY	Sampling Condition:	** (See Notes)
Project Number:	STATE N BATTERY - LEAK 2	Sample Received By:	Tamara Oldaker
Project Location:	CROSSTIMBERS		

Sample ID: ST N L2 - 1 (H210237-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/02/2021	ND	2.20	110	2.00	4.32	
Toluene*	6.58	0.500	02/02/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	10.7	0.500	02/02/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	20.1	1.50	02/02/2021	ND	6.19	103	6.00	4.13	
Total BTX	37.3	3.00	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/03/2021	ND	400	100	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	643	50.0	02/02/2021	ND	169	84.6	200	7.52		
DRO >C10-C28*	41000	50.0	02/02/2021	ND	175	87.4	200	5.99		
EXT DRO >C28-C36	8490	50.0	02/02/2021	ND						

Surrogate: 1-Chlorooctane 461 % 44.3-144

Surrogate: 1-Chlorooctadecane 1210 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/03/2021	Sampling Type:	Soil
Project Name:	STATE N BATTERY	Sampling Condition:	** (See Notes)
Project Number:	STATE N BATTERY - LEAK 2	Sample Received By:	Tamara Oldaker
Project Location:	CROSSTIMBERS		

Sample ID: ST N L2 - 2 (H210237-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2021	ND	2.20	110	2.00	4.32	
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13	
Total BTEx	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/03/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	02/02/2021	ND	169	84.6	200	7.52	
DRO >C10-C28*	7800	50.0	02/02/2021	ND	175	87.4	200	5.99	
EXT DRO >C28-C36	1870	50.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 132 % 44.3-144

Surrogate: 1-Chlorooctadecane 274 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/03/2021	Sampling Type:	Soil
Project Name:	STATE N BATTERY	Sampling Condition:	** (See Notes)
Project Number:	STATE N BATTERY - LEAK 2	Sample Received By:	Tamara Oldaker
Project Location:	CROSSTIMBERS		

Sample ID: ST N L2 - 3 (H210237-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.44	1.00	02/03/2021	ND	2.20	110	2.00	4.32	
Toluene*	25.2	1.00	02/03/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	35.9	1.00	02/03/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	53.4	3.00	02/03/2021	ND	6.19	103	6.00	4.13	
Total BTEX	118	6.00	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/03/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1490	50.0	02/02/2021	ND	169	84.6	200	7.52	
DRO >C10-C28*	53700	50.0	02/02/2021	ND	175	87.4	200	5.99	
EXT DRO >C28-C36	10800	50.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 361 % 44.3-144

Surrogate: 1-Chlorooctadecane 1340 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/03/2021	Sampling Type:	Soil
Project Name:	STATE N BATTERY	Sampling Condition:	** (See Notes)
Project Number:	STATE N BATTERY - LEAK 2	Sample Received By:	Tamara Oldaker
Project Location:	CROSSTIMBERS		

Sample ID: ST N L2 - 4 (H210237-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.245	0.200	02/02/2021	ND	2.20	110	2.00	4.32	
Toluene*	1.22	0.200	02/02/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	1.40	0.200	02/02/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	2.72	0.600	02/02/2021	ND	6.19	103	6.00	4.13	
Total BTX	5.58	1.20	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/03/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	306	50.0	02/02/2021	ND	169	84.6	200	7.52	
DRO >C10-C28*	44500	50.0	02/02/2021	ND	175	87.4	200	5.99	
EXT DRO >C28-C36	9470	50.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 427 % 44.3-144

Surrogate: 1-Chlorooctadecane 1310 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/03/2021	Sampling Type:	Soil
Project Name:	STATE N BATTERY	Sampling Condition:	** (See Notes)
Project Number:	STATE N BATTERY - LEAK 2	Sample Received By:	Tamara Oldaker
Project Location:	CROSSTIMBERS		

Sample ID: ST N L2 - 5 (H210237-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/03/2021	ND	2.20	110	2.00	4.32	
Toluene*	5.18	1.00	02/03/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	20.5	1.00	02/03/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	31.9	3.00	02/03/2021	ND	6.19	103	6.00	4.13	
Total BTEX	58.0	6.00	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/03/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1190	50.0	02/02/2021	ND	169	84.6	200	7.52		
DRO >C10-C28*	37800	50.0	02/02/2021	ND	175	87.4	200	5.99		
EXT DRO >C28-C36	8450	50.0	02/02/2021	ND						

Surrogate: 1-Chlorooctane 329 % 44.3-144

Surrogate: 1-Chlorooctadecane 1030 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/03/2021	Sampling Type:	Soil
Project Name:	STATE N BATTERY	Sampling Condition:	** (See Notes)
Project Number:	STATE N BATTERY - LEAK 2	Sample Received By:	Tamara Oldaker
Project Location:	CROSSTIMBERS		

Sample ID: ST N L2 - 6 (H210237-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/03/2021	ND	2.20	110	2.00	4.32	
Toluene*	4.32	0.500	02/03/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	31.1	0.500	02/03/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	40.1	1.50	02/03/2021	ND	6.19	103	6.00	4.13	
Total BTEX	75.5	3.00	02/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/03/2021	ND	416	104	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	687	50.0	02/02/2021	ND	169	84.6	200	7.52	
DRO >C10-C28*	20800	50.0	02/02/2021	ND	175	87.4	200	5.99	
EXT DRO >C28-C36	3970	50.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 200 % 44.3-144

Surrogate: 1-Chlorooctadecane 558 % 42.2-156

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

Page 9 of 9



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 29, 2021

JAKE BAEZA

CROSS TIMBERS ENERGY, LLC

P. O. BOX 909

EUNICE, NM 88231

RE: STATE N LEAK #2

Enclosed are the results of analyses for samples received by the laboratory on 04/27/21 11:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received: 04/27/2021
 Reported: 04/29/2021
 Project Name: STATE N LEAK #2
 Project Number: NOT GIVEN
 Project Location: STATE N FLOWLINE

Sampling Date: 04/27/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: ST N L2 - 001 (H211069-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.214	0.050	04/29/2021	ND	1.91	95.6	2.00	2.27	
Toluene*	3.25	0.050	04/29/2021	ND	1.92	96.1	2.00	2.30	QM-07
Ethylbenzene*	6.03	0.050	04/29/2021	ND	1.92	96.1	2.00	2.57	QM-07
Total Xylenes*	7.11	0.150	04/29/2021	ND	5.75	95.9	6.00	2.21	
Total BTX	16.6	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/29/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	111	50.0	04/29/2021	ND	221	110	200	1.57		
DRO >C10-C28*	13500	50.0	04/29/2021	ND	241	120	200	5.02		
EXT DRO >C28-C36	3180	50.0	04/29/2021	ND						

Surrogate: 1-Chlorooctane 129 % 44.3-133

Surrogate: 1-Chlorooctadecane 481 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received: 04/27/2021
 Reported: 04/29/2021
 Project Name: STATE N LEAK #2
 Project Number: NOT GIVEN
 Project Location: STATE N FLOWLINE

Sampling Date: 04/27/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: ST N L2 - 002 (H211069-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2021	ND	1.91	95.6	2.00	2.27		
Toluene*	<0.050	0.050	04/29/2021	ND	1.92	96.1	2.00	2.30		
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.92	96.1	2.00	2.57		
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.75	95.9	6.00	2.21		
Total BTX	<0.300	0.300	04/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/29/2021	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	04/29/2021	ND	221	110	200	1.57	
DRO >C10-C28*	6630	50.0	04/29/2021	ND	241	120	200	5.02	
EXT DRO >C28-C36	1510	50.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 252 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received: 04/27/2021
 Reported: 04/29/2021
 Project Name: STATE N LEAK #2
 Project Number: NOT GIVEN
 Project Location: STATE N FLOWLINE

Sampling Date: 04/27/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: ST N L2 - 003 (H211069-03)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	1.91	95.6	2.00	2.27	
Toluene*	0.121	0.050	04/29/2021	ND	1.92	96.1	2.00	2.30	
Ethylbenzene*	0.451	0.050	04/29/2021	ND	1.92	96.1	2.00	2.57	
Total Xylenes*	1.61	0.150	04/29/2021	ND	5.75	95.9	6.00	2.21	
Total BTEX	2.18	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 152 % 69.9-140

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/29/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	04/29/2021	ND	221	110	200	1.57	
DRO >C10-C28*	21500	50.0	04/29/2021	ND	241	120	200	5.02	
EXT DRO >C28-C36	5300	50.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 726 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received: 04/27/2021
 Reported: 04/29/2021
 Project Name: STATE N LEAK #2
 Project Number: NOT GIVEN
 Project Location: STATE N FLOWLINE

Sampling Date: 04/27/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: ST N L2 - 004 (H211069-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.077	0.050	04/29/2021	ND	1.91	95.6	2.00	2.27	
Toluene*	0.462	0.050	04/29/2021	ND	1.92	96.1	2.00	2.30	
Ethylbenzene*	0.582	0.050	04/29/2021	ND	1.92	96.1	2.00	2.57	
Total Xylenes*	0.802	0.150	04/29/2021	ND	5.75	95.9	6.00	2.21	
Total BTEX	1.92	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/29/2021	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	139	50.0	04/29/2021	ND	221	110	200	1.57	
DRO >C10-C28*	17200	50.0	04/29/2021	ND	241	120	200	5.02	
EXT DRO >C28-C36	4440	50.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 126 % 44.3-133

Surrogate: 1-Chlorooctadecane 571 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received: 04/27/2021
 Reported: 04/29/2021
 Project Name: STATE N LEAK #2
 Project Number: NOT GIVEN
 Project Location: STATE N FLOWLINE

Sampling Date: 04/27/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: ST N L2 - 005 (H211069-05)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	1.91	95.6	2.00	2.27	
Toluene*	1.77	0.050	04/29/2021	ND	1.92	96.1	2.00	2.30	
Ethylbenzene*	6.36	0.050	04/29/2021	ND	1.92	96.1	2.00	2.57	
Total Xylenes*	11.8	0.150	04/29/2021	ND	5.75	95.9	6.00	2.21	
Total BTX	20.0	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 159 % 69.9-140

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/29/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	321	50.0	04/29/2021	ND	221	110	200	1.57	
DRO >C10-C28*	22500	50.0	04/29/2021	ND	241	120	200	5.02	
EXT DRO >C28-C36	4800	50.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 160 % 44.3-133

Surrogate: 1-Chlorooctadecane 661 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received: 04/27/2021
 Reported: 04/29/2021
 Project Name: STATE N LEAK #2
 Project Number: NOT GIVEN
 Project Location: STATE N FLOWLINE

Sampling Date: 04/27/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: ST N L2 - 006 (H211069-06)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	1.91	95.6	2.00	2.27	
Toluene*	1.68	0.050	04/29/2021	ND	1.92	96.1	2.00	2.30	
Ethylbenzene*	4.83	0.050	04/29/2021	ND	1.92	96.1	2.00	2.57	
Total Xylenes*	14.1	0.150	04/29/2021	ND	5.75	95.9	6.00	2.21	
Total BTX	20.6	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 162 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/29/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	294	50.0	04/29/2021	ND	221	110	200	1.57	
DRO >C10-C28*	14600	50.0	04/29/2021	ND	241	120	200	5.02	
EXT DRO >C28-C36	3290	50.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 131 % 44.3-133

Surrogate: 1-Chlorooctadecane 485 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received: 04/27/2021
 Reported: 04/29/2021
 Project Name: STATE N LEAK #2
 Project Number: NOT GIVEN
 Project Location: STATE N FLOWLINE

Sampling Date: 04/27/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: ST N L2 - EAST (H211069-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2021	ND	1.91	95.6	2.00	2.27	
Toluene*	<0.050	0.050	04/28/2021	ND	1.92	96.1	2.00	2.30	
Ethylbenzene*	<0.050	0.050	04/28/2021	ND	1.92	96.1	2.00	2.57	
Total Xylenes*	<0.150	0.150	04/28/2021	ND	5.75	95.9	6.00	2.21	
Total BTX	<0.300	0.300	04/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/29/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2021	ND	221	110	200	1.57	
DRO >C10-C28*	44.2	10.0	04/28/2021	ND	241	120	200	5.02	
EXT DRO >C28-C36	<10.0	10.0	04/28/2021	ND					

Surrogate: 1-Chlorooctane 78.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received: 04/27/2021
 Reported: 04/29/2021
 Project Name: STATE N LEAK #2
 Project Number: NOT GIVEN
 Project Location: STATE N FLOWLINE

Sampling Date: 04/27/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: ST N L2 - WEST (H211069-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	1.91	95.6	2.00	2.27	
Toluene*	0.059	0.050	04/29/2021	ND	1.92	96.1	2.00	2.30	
Ethylbenzene*	0.198	0.050	04/29/2021	ND	1.92	96.1	2.00	2.57	
Total Xylenes*	0.293	0.150	04/29/2021	ND	5.75	95.9	6.00	2.21	
Total BTX	0.549	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/29/2021	ND	432	108	400	7.69		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	04/28/2021	ND	221	110	200	1.57	
DRO >C10-C28*	2410	50.0	04/28/2021	ND	241	120	200	5.02	
EXT DRO >C28-C36	363	50.0	04/28/2021	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 149 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received: 04/27/2021
 Reported: 04/29/2021
 Project Name: STATE N LEAK #2
 Project Number: NOT GIVEN
 Project Location: STATE N FLOWLINE

Sampling Date: 04/27/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: ST N L2 - NORTH (H211069-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2021	ND	1.91	95.6	2.00	2.27		
Toluene*	<0.050	0.050	04/29/2021	ND	1.92	96.1	2.00	2.30		
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.92	96.1	2.00	2.57		
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.75	95.9	6.00	2.21		
Total BTEX	<0.300	0.300	04/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/29/2021	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	04/28/2021	ND	221	110	200	1.57	
DRO >C10-C28*	2680	50.0	04/28/2021	ND	241	120	200	5.02	
EXT DRO >C28-C36	646	50.0	04/28/2021	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 185 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received: 04/27/2021
 Reported: 04/29/2021
 Project Name: STATE N LEAK #2
 Project Number: NOT GIVEN
 Project Location: STATE N FLOWLINE

Sampling Date: 04/27/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: ST N L2 - SOUTH (H211069-10)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/28/2021	ND	1.91	95.6	2.00	2.27		
Toluene*	<0.050	0.050	04/28/2021	ND	1.92	96.1	2.00	2.30		
Ethylbenzene*	<0.050	0.050	04/28/2021	ND	1.92	96.1	2.00	2.57		
Total Xylenes*	<0.150	0.150	04/28/2021	ND	5.75	95.9	6.00	2.21		
Total BTEx	<0.300	0.300	04/28/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/29/2021	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2021	ND	221	110	200	1.57	
DRO >C10-C28*	36.8	10.0	04/28/2021	ND	241	120	200	5.02	
EXT DRO >C28-C36	12.1	10.0	04/28/2021	ND					

Surrogate: 1-Chlorooctane 62.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: CrossTimbers Energy LLC Project Manager: Jake Baeza Address: 20 Box 2036 City: Lordsburg State: NM Zip: 88260 Phone #: 575-513-8134 Fax #: Project #: Project Name: St N Leak #2 Project Location: St N Flowline Sampler Name: Jake Baeza		P.O. #: Company: CrossTimbers Attn: Jake Baeza Address: City: SAME State: SAME Zip: Phone #: Fax #:	
FOR LAB USE ONLY		BILL TO	
Lab I.D. Sample I.D.		ANALYSIS REQUEST	
1 ST N L2-001 2 ST N L2-002 3 ST N L2-003 4 ST N L2-004 5 ST N L2-005 6 ST N L2-006 7 ST N L2-007 8 ST N L2-008 9 ST N L2-009 10 ST N L2-010		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	
DATE 4-27-21		TIME 9:30	
TPT Chlorides BTEX		[Empty columns for analysis results]	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		REMARKS: Baeza@ctfieldsvcs.com	
Relinquished By: Date: 4-27-21 Time: 11:20 Received By: [Signature] Date: [Signature] Time: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 22.8 Corrected Temp. °C: Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Checked By: (Initials) T.B. Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Bacteria (only) <input type="checkbox"/> Correction Factor: None <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C	



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 06, 2021

JAKE BAEZA

CROSS TIMBERS ENERGY, LLC

P. O. BOX 909

EUNICE, NM 88231

RE: STATE N

Enclosed are the results of analyses for samples received by the laboratory on 05/04/21 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	05/04/2021	Sampling Date:	05/04/2021
Reported:	05/06/2021	Sampling Type:	Soil
Project Name:	STATE N	Sampling Condition:	** (See Notes)
Project Number:	STATE N FLOWLINE	Sample Received By:	Tamara Oldaker
Project Location:	CROSSTIMBERS - BUCKEYE NM		

Sample ID: ST N L2 - WEST (H211130-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2021	ND	2.01	101	2.00	10.9	
Toluene*	<0.050	0.050	05/05/2021	ND	1.95	97.6	2.00	10.7	
Ethylbenzene*	<0.050	0.050	05/05/2021	ND	1.92	96.0	2.00	9.65	
Total Xylenes*	<0.150	0.150	05/05/2021	ND	5.72	95.3	6.00	9.45	
Total BTEX	<0.300	0.300	05/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/05/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2021	ND	198	99.0	200	2.35	
DRO >C10-C28*	<10.0	10.0	05/05/2021	ND	191	95.3	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	05/05/2021	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.6 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CROSS TIMBERS ENERGY, LLC
 JAKE BAEZA
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	05/04/2021	Sampling Date:	05/04/2021
Reported:	05/06/2021	Sampling Type:	Soil
Project Name:	STATE N	Sampling Condition:	** (See Notes)
Project Number:	STATE N FLOWLINE	Sample Received By:	Tamara Oldaker
Project Location:	CROSSTIMBERS - BUCKEYE NM		

Sample ID: ST N L2 - NORTH (H211130-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2021	ND	2.01	101	2.00	10.9		
Toluene*	<0.050	0.050	05/05/2021	ND	1.95	97.6	2.00	10.7		
Ethylbenzene*	<0.050	0.050	05/05/2021	ND	1.92	96.0	2.00	9.65		
Total Xylenes*	<0.150	0.150	05/05/2021	ND	5.72	95.3	6.00	9.45		
Total BTEx	<0.300	0.300	05/05/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/05/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2021	ND	198	99.0	200	2.35	
DRO >C10-C28*	<10.0	10.0	05/05/2021	ND	191	95.3	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	05/05/2021	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.0 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>CrossTimbers Energy LLC</u> Project Manager: <u>Sake Baeza</u> Address: <u>PO Box 2036</u> City: <u>Levellington</u> State: <u>NM</u> Zip: <u>88260</u> Phone #: <u>575-513-8134</u> Fax #: _____ Project #: <u>54N</u> Project Owner: <u>CrossTimbers</u> Project Name: <u>54N</u> Project Location: <u>54N Flowline</u> Sampler Name: <u>Sake Baeza</u>				BILL TO P.O. #: _____ Company: _____ Attn: <u>Shake</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		ANALYSIS REQUEST			
FOR LAB USE ONLY Lab I.D. _____ Sample I.D. _____ <u>421130</u> <u>54N LA-West</u> <u>54N LA-North</u>		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ MATRIX GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____		PRESERV. _____ SAMPLING _____ DATE <u>5-4-21</u> TIME <u>10:00</u> <u>10:00</u>		TPH _____ chlorides _____ Btex _____			
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Reinquinshed By: _____ Date: <u>5-4-21</u> Time: <u>10:40</u> Received By: _____ Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: <u>Baeza@cfFieldSUS.com</u>		Turnaround Time: _____ Thermometer ID #113 _____ Correction Factor None Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Sample Condition <input checked="" type="checkbox"/> Observed Temp. °C <u>20.7</u> Delivered By: (Circle One) <input checked="" type="checkbox"/> Corrected Temp. °C <u>20.7</u> Sampler - UPS - Bus - Other: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Yes <input type="checkbox"/> No			

FORM-000 R-3-1 00/04/20

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CROSS TIMBERS ENERGY, LLC
STATE N BTY
12/10/2020 IMAGE #1



CROSS TIMBERS ENERGY, LLC
STATE N BTY
12/10/2020 IMAGE #2



CROSS TIMBERS ENERGY, LLC

STATE N BATTERY

nAPP2035151755



District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 27645

CONDITIONS

Operator: CROSS TIMBERS ENERGY, LLC 400 West 7th Street Fort Worth, TX 76102	OGRID: 298299
	Action Number: 27645
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Horizontal delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation.	6/28/2021
chensley	All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg. In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 "Closure Criteria for Soils Impacted by a Release" included in the spill rule http://164.64.110.134/parts/title19/19.015.0029.html	6/28/2021
chensley	Please continue to delineate sidewall samples until they meet closure criteria standards for Table 1.	6/28/2021
chensley	Surface to 4' below ground surface sidewall/floor samples need to comply with the strictest closure criteria limits (600 mg/kg, Chlorides, 100 mg/kg TPH, etc.). The sidewall samples below 4' would revert back to Table 1 in the Spill Rule.	6/28/2021